

05-22-00

PTO/SB/05 (4/98)

Approved for use through 09/30/2000. OMB 0451-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
This form is not valid unless it displays a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL

Form for new nonprovisional applications under 37 CFR 1.53(b)

Attorney Docket No. 7568M

First Inventor or Application Identifier Mario Elam Tremblay

Title

METHOD FOR REMOVAL OF NANO-SIZED
PATHOGENS FROM LIQUIDS

Express Mail Label No.

EJ302200802US

APPLICATION ELEMENTS

See MPEP Chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

1. ☒ * Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)

2. ☒ Specification Total Pages [13]
(preferred arrangement set forth below)

- Descriptive Title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R&D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

3. ☒ Drawing(s) (35 USC 113) Total Sheets [2]

4. Oath or Declaration Total pages [2]

- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 16 completed)

i. ☐ DELETION OF INVENTORS

Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§1.63(d)(2) and 1.33(b).

5. ☐ Microfiche Computer Program (Appendix)

6. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)

- a. ☐ Computer Readable copy
- b. ☐ Paper Copy (identical to computer copy)
- c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

7. ☐ Assignment Papers (cover sheet & document(s))

8. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)

9. ☐ English Translation Document (if applicable)

10. ☐ Information Disclosure ☐ Copies of IDS
Statement (IDS)/PTO-1449 Citations

11. ☐ Preliminary Amendment

12. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)

13. ☐ *Small Entity ☐ Statement filed in prior application
Statement(s) Status still proper and desired

14. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)

15. ☐ Other:

* NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. §1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. §1.28).

16. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in the preliminary amendment:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No. /

Prior application information: Examiner: _____ Group/Art Unit: _____

For CONTINUATION or DIVISIONAL only: The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) or ☐ Correspondence address below

NAME	Carl J. Roof			
	The Procter & Gamble Company			
ADDRESS	Health Care Research Center			
	8700 Mason Montgomery Road			
CITY	Mason	STATE	OH	ZIP CODE
COUNTRY	USA	TELEPHONE	513-622-3950	FAX
				45040
				513-622-3300

Name (Print/Type)	Carl J. Roof	Registration No. (Attorney/Agent)	37,708
Signature	Carl J. Roof	Date	May 19, 2000

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

<h2 style="text-align: center;">FEE TRANSMITTAL</h2> <h3 style="text-align: center;">for FY 2000</h3> <p>Patent fees are subject to annual revision. Small Entity payments <u>must</u> be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12. See 37 C.F.R. §§1.27 and 1.28.</p>	<h3 style="text-align: center;">Complete if Known</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Application Number</td> <td></td> </tr> <tr> <td>Filing Date</td> <td>May 19, 2000</td> </tr> <tr> <td>First Named Inventor</td> <td>Mario Elam Tremblay</td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Group/Art Unit</td> <td></td> </tr> <tr> <td>Attorney Docket No..</td> <td>7568M</td> </tr> </table>	Application Number		Filing Date	May 19, 2000	First Named Inventor	Mario Elam Tremblay	Examiner Name		Group/Art Unit		Attorney Docket No..	7568M
Application Number													
Filing Date	May 19, 2000												
First Named Inventor	Mario Elam Tremblay												
Examiner Name													
Group/Art Unit													
Attorney Docket No..	7568M												
TOTAL AMOUNT OF PAYMENT (\$) 768													

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)																																																																																																																																																																														
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to: Deposit Account Number 16-2480 Deposit Account Name The Procter & Gamble Company <input type="checkbox"/> Charge Any Additional Fee Required Under 37 C.F.R. §§1.16 and 1.17 <input type="checkbox"/> Charge the Issue Fee Set in 37 C.F.R. §1.18 at the Mailing of the Notice of Allowance</p> <p>2. <input type="checkbox"/> Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other</p>	<p>3. ADDITIONAL FEES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td><input type="checkbox"/></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td><input type="checkbox"/></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td><input type="checkbox"/></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td><input type="checkbox"/></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner's action</td><td><input type="checkbox"/></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner's action</td><td><input type="checkbox"/></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within 1st month</td><td><input type="checkbox"/></td></tr> <tr><td>116</td><td>380</td><td>216</td><td>190</td><td>Extension for reply within 2nd month</td><td><input type="checkbox"/></td></tr> <tr><td>117</td><td>870</td><td>217</td><td>435</td><td>Extension for reply within 3rd month</td><td><input type="checkbox"/></td></tr> <tr><td>118</td><td>1,360</td><td>218</td><td>680</td><td>Extension for reply within 4th month</td><td><input type="checkbox"/></td></tr> <tr><td>128</td><td>1,850</td><td>228</td><td>925</td><td>Extension for reply within 5th month</td><td><input type="checkbox"/></td></tr> <tr><td>119</td><td>300</td><td>219</td><td>150</td><td>Notice of Appeal</td><td><input type="checkbox"/></td></tr> <tr><td>120</td><td>300</td><td>220</td><td>150</td><td>Filing a brief in support of an appeal</td><td><input type="checkbox"/></td></tr> <tr><td>121</td><td>260</td><td>221</td><td>130</td><td>Request for oral hearing</td><td><input type="checkbox"/></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td><input type="checkbox"/></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td><input type="checkbox"/></td></tr> <tr><td>141</td><td>1,210</td><td>241</td><td>605</td><td>Petition to revive - unintentional</td><td><input type="checkbox"/></td></tr> <tr><td>142</td><td>1,210</td><td>242</td><td>605</td><td>Utility issue fee (or reissue)</td><td><input type="checkbox"/></td></tr> <tr><td>143</td><td>430</td><td>243</td><td>215</td><td>Design issue fee</td><td><input type="checkbox"/></td></tr> <tr><td>144</td><td>580</td><td>244</td><td>290</td><td>Plant issue fee</td><td><input type="checkbox"/></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td><input type="checkbox"/></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td><input type="checkbox"/></td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of IDS</td><td><input type="checkbox"/></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td><input type="checkbox"/></td></tr> <tr><td>146</td><td>690</td><td>246</td><td>345</td><td>Filing a submission after final rejection</td><td><input type="checkbox"/></td></tr> <tr><td>149</td><td>690</td><td>249</td><td>345</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td><input type="checkbox"/></td></tr> <tr><td colspan="6">Other fee (specify) _____ <input type="checkbox"/></td></tr> <tr><td colspan="6">Other fee (specify) _____ <input type="checkbox"/></td></tr> </tbody> </table>	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee	105	130	205	65	Surcharge - late filing fee or oath	<input type="checkbox"/>	127	50	227	25	Surcharge - late provisional filing fee or cover sheet	<input type="checkbox"/>	139	130	139	130	Non-English specification	<input type="checkbox"/>	147	2,520	147	2,520	For filing a request for reexamination	<input type="checkbox"/>	112	920*	112	920*	Requesting publication of SIR prior to Examiner's action	<input type="checkbox"/>	113	1,840*	113	1,840*	Requesting publication of SIR after Examiner's action	<input type="checkbox"/>	115	110	215	55	Extension for reply within 1 st month	<input type="checkbox"/>	116	380	216	190	Extension for reply within 2 nd month	<input type="checkbox"/>	117	870	217	435	Extension for reply within 3 rd month	<input type="checkbox"/>	118	1,360	218	680	Extension for reply within 4 th month	<input type="checkbox"/>	128	1,850	228	925	Extension for reply within 5 th month	<input type="checkbox"/>	119	300	219	150	Notice of Appeal	<input type="checkbox"/>	120	300	220	150	Filing a brief in support of an appeal	<input type="checkbox"/>	121	260	221	130	Request for oral hearing	<input type="checkbox"/>	138	1,510	138	1,510	Petition to institute a public use proceeding	<input type="checkbox"/>	140	110	240	55	Petition to revive - unavoidable	<input type="checkbox"/>	141	1,210	241	605	Petition to revive - unintentional	<input type="checkbox"/>	142	1,210	242	605	Utility issue fee (or reissue)	<input type="checkbox"/>	143	430	243	215	Design issue fee	<input type="checkbox"/>	144	580	244	290	Plant issue fee	<input type="checkbox"/>	122	130	122	130	Petitions to the Commissioner	<input type="checkbox"/>	123	50	123	50	Petitions related to provisional applications	<input type="checkbox"/>	126	240	126	240	Submission of IDS	<input type="checkbox"/>	581	40	581	40	Recording each patent assignment per property (times number of properties)	<input type="checkbox"/>	146	690	246	345	Filing a submission after final rejection	<input type="checkbox"/>	149	690	249	345	For each additional invention to be examined (37 CFR 1.129(b))	<input type="checkbox"/>	Other fee (specify) _____ <input type="checkbox"/>						Other fee (specify) _____ <input type="checkbox"/>					
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee																																																																																																																																																																										
105	130	205	65	Surcharge - late filing fee or oath	<input type="checkbox"/>																																																																																																																																																																										
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	<input type="checkbox"/>																																																																																																																																																																										
139	130	139	130	Non-English specification	<input type="checkbox"/>																																																																																																																																																																										
147	2,520	147	2,520	For filing a request for reexamination	<input type="checkbox"/>																																																																																																																																																																										
112	920*	112	920*	Requesting publication of SIR prior to Examiner's action	<input type="checkbox"/>																																																																																																																																																																										
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner's action	<input type="checkbox"/>																																																																																																																																																																										
115	110	215	55	Extension for reply within 1 st month	<input type="checkbox"/>																																																																																																																																																																										
116	380	216	190	Extension for reply within 2 nd month	<input type="checkbox"/>																																																																																																																																																																										
117	870	217	435	Extension for reply within 3 rd month	<input type="checkbox"/>																																																																																																																																																																										
118	1,360	218	680	Extension for reply within 4 th month	<input type="checkbox"/>																																																																																																																																																																										
128	1,850	228	925	Extension for reply within 5 th month	<input type="checkbox"/>																																																																																																																																																																										
119	300	219	150	Notice of Appeal	<input type="checkbox"/>																																																																																																																																																																										
120	300	220	150	Filing a brief in support of an appeal	<input type="checkbox"/>																																																																																																																																																																										
121	260	221	130	Request for oral hearing	<input type="checkbox"/>																																																																																																																																																																										
138	1,510	138	1,510	Petition to institute a public use proceeding	<input type="checkbox"/>																																																																																																																																																																										
140	110	240	55	Petition to revive - unavoidable	<input type="checkbox"/>																																																																																																																																																																										
141	1,210	241	605	Petition to revive - unintentional	<input type="checkbox"/>																																																																																																																																																																										
142	1,210	242	605	Utility issue fee (or reissue)	<input type="checkbox"/>																																																																																																																																																																										
143	430	243	215	Design issue fee	<input type="checkbox"/>																																																																																																																																																																										
144	580	244	290	Plant issue fee	<input type="checkbox"/>																																																																																																																																																																										
122	130	122	130	Petitions to the Commissioner	<input type="checkbox"/>																																																																																																																																																																										
123	50	123	50	Petitions related to provisional applications	<input type="checkbox"/>																																																																																																																																																																										
126	240	126	240	Submission of IDS	<input type="checkbox"/>																																																																																																																																																																										
581	40	581	40	Recording each patent assignment per property (times number of properties)	<input type="checkbox"/>																																																																																																																																																																										
146	690	246	345	Filing a submission after final rejection	<input type="checkbox"/>																																																																																																																																																																										
149	690	249	345	For each additional invention to be examined (37 CFR 1.129(b))	<input type="checkbox"/>																																																																																																																																																																										
Other fee (specify) _____ <input type="checkbox"/>																																																																																																																																																																															
Other fee (specify) _____ <input type="checkbox"/>																																																																																																																																																																															
<p>1. BASIC FILING FEE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td><input checked="" type="checkbox"/></td></tr> <tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td><input type="checkbox"/></td></tr> <tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td><input type="checkbox"/></td></tr> <tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td><input type="checkbox"/></td></tr> <tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td><input type="checkbox"/></td></tr> <tr><td colspan="5" style="text-align: right;">SUBTOTAL (1)</td><td>(\$)[690]</td></tr> </tbody> </table> <p>2. EXTRA CLAIM FEES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4"></th> <th colspan="2" style="text-align: center;">Fee From</th> </tr> <tr> <th colspan="4"></th> <th colspan="2" style="text-align: center;">Extra Claims Below Fee</th> </tr> </thead> <tbody> <tr> <td colspan="6">Paid</td> </tr> <tr> <td colspan="6">Total Claims [16] - 20** = [0] x [18] = [0]</td> </tr> <tr> <td colspan="6">Independent Claims [4] - 3** = [1] x [78] = [78]</td> </tr> <tr> <td colspan="6">Multiple Dependent <input type="checkbox"/> = <input type="checkbox"/></td> </tr> <tr> <td colspan="6">** or number previously paid, if greater, For Reissues, see below</td> </tr> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th></th> </tr> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>109</td><td>78</td><td>209</td><td>39</td><td>**Reissue independent claims over original patent</td><td></td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>**Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr><td colspan="5" style="text-align: right;">SUBTOTAL (2)</td><td>(\$)[78]</td></tr> </tbody> </table>	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	101	690	201	345	Utility filing fee	<input checked="" type="checkbox"/>	106	310	206	155	Design filing fee	<input type="checkbox"/>	107	480	207	240	Plant filing fee	<input type="checkbox"/>	108	690	208	345	Reissue filing fee	<input type="checkbox"/>	114	150	214	75	Provisional filing fee	<input type="checkbox"/>	SUBTOTAL (1)					(\$)[690]					Fee From						Extra Claims Below Fee		Paid						Total Claims [16] - 20** = [0] x [18] = [0]						Independent Claims [4] - 3** = [1] x [78] = [78]						Multiple Dependent <input type="checkbox"/> = <input type="checkbox"/>						** or number previously paid, if greater, For Reissues, see below						Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description		103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims in excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	**Reissue independent claims over original patent		110	18	210	9	**Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)					(\$)[78]	<p>* Reduced by Basic Filing Fee Paid SUBTOTAL(3) (\$) <input type="checkbox"/></p>																																																
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																										
101	690	201	345	Utility filing fee	<input checked="" type="checkbox"/>																																																																																																																																																																										
106	310	206	155	Design filing fee	<input type="checkbox"/>																																																																																																																																																																										
107	480	207	240	Plant filing fee	<input type="checkbox"/>																																																																																																																																																																										
108	690	208	345	Reissue filing fee	<input type="checkbox"/>																																																																																																																																																																										
114	150	214	75	Provisional filing fee	<input type="checkbox"/>																																																																																																																																																																										
SUBTOTAL (1)					(\$)[690]																																																																																																																																																																										
				Fee From																																																																																																																																																																											
				Extra Claims Below Fee																																																																																																																																																																											
Paid																																																																																																																																																																															
Total Claims [16] - 20** = [0] x [18] = [0]																																																																																																																																																																															
Independent Claims [4] - 3** = [1] x [78] = [78]																																																																																																																																																																															
Multiple Dependent <input type="checkbox"/> = <input type="checkbox"/>																																																																																																																																																																															
** or number previously paid, if greater, For Reissues, see below																																																																																																																																																																															
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description																																																																																																																																																																											
103	18	203	9	Claims in excess of 20																																																																																																																																																																											
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																											
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																											
109	78	209	39	**Reissue independent claims over original patent																																																																																																																																																																											
110	18	210	9	**Reissue claims in excess of 20 and over original patent																																																																																																																																																																											
SUBTOTAL (2)					(\$)[78]																																																																																																																																																																										

SUBMITTED BY			Complete (if applicable)	
Name (Print/Type)	Carl J. Ro f	Registration No. (Attorney/Agent)	37,708	Telephone (513) 622-3950
Signature			Date	May 19, 2000

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.